January 31, 2003 CERTIFIED MAIL #9059 2788

William Moore
President
PACMoore Products, Inc.
1844 Summer Street
Hammond, Indiana 46320

Re: State Registration 089-16975-00476

Dear Mr. Moore:

The application from PACMoore Products, Inc., received on December 20, 2002, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-5.5, it has been determined that the following Dried Food Ingredients Receiving and Packaging Processes be located at 1844 Summer Street, Hammond, Indiana, is classified as registered:

(a) Blending Station A, with a maximum capacity of 2.5 tons/hour, using a Schick dust collector (58AJ36) as control, and exhausting to stack (blending A).

(b) Bulk Receiving and Packaging System, with a maximum capacity of 15 tons/hour, using a Camco, Inc. Cartridge Bin Vent Filter (C-26-6-BV), and exhausting to Bulk Receiving Stack.

(c) Bulk Unloading and Blending System, with a maximum capacity of 3.6 tons/hour, using a MikroPul Bin Vent filter (CFV-6), and exhausting to Bulk Unloading Stack.

(d) Packaging Station, with a maximum capacity of 3.75 tons/hour, using a Torit dust collector (192709), and exhausting to Packaging Stack.

(e) Paper Bag Recycling System, with a maximum capacity of 0.05 tons/hour of dried food ingredients, using a MactiFlow dust collector (3MTF 36), and exhausting to Bag Recycling Stack.

(f) Sifting and Repackaging System, with a maximum capacity of 3.75 tons/hour, using a Mikro-Pulsaire Dust Collector (21-6-100), and exhausting to the Repackaging Stack.

(g) Sodium Sulfate Bulk Unloading and Packaging Operation, with a maximum capacity of 15 tons/hour, using a Mikropul Pulse Jet Dust Collector (45-6-220), and exhausting to the Unloading Stack.

The following conditions shall be applicable:

Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:

(a) Opacity shall not exceed an average of twenty percent (20%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the following facilities shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10\ P^{0.67}$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Bulk Receiving, 25.16 lbs/hr
Blender A, 7.58 lbs/hr
Sifter Hopper, 9.94 lbs/hr
Corner Hopper, 9.94 lbs/hr
Blender B, 9.67 lbs/hr
Bulk Unloading, 25.16 lbs/hr
Paper Bailer, 0.55 lbs/hr

However, since no controls are needed to meet any of these allowable rates, the Hammond Air Quality Control Ordinance No. 3522 (as amended) will limit the process emissions to the following emissions after controls which will be within the standards set by the rule:

Bulk Receiving, 0.0012 lbs/hr
Blender A, 0.0006 lbs/hr
Sifter Hopper, 0.0009 lbs/hr
Corner Hopper, 0.0009 lbs/hr
Blender B, 0.0001 lbs/hr
Bulk Unloading, 0.11 lbs/hr
Paper Bailer, 0.55 lbs/hr (as above)

The dust collecting equipment shall be in operation at all times the facilities are in operation, in order to comply with this limit.

This registration is the first State Registration issued to this source. The source may operate according to 326 IAC 2-5.5.

An authorized individual shall provide an annual notice to the Office of Air Quality that the source is in operation and in compliance with this registration pursuant to 326 IAC 2-5.5-4(a)(3). The annual notice shall be submitted to:

Compliance Data Section
Office of Air Quality
100 North Senate Avenue
Indianapolis, IN 46206-6015

and

Hammond Department of Environmental Management
Air Pollution Control Division
5925 Calumet Avenue
Hammond, Indiana 46320

no later than March 1 of each year, with the annual notice being submitted in the format attached.

An application or notification shall be submitted in accordance with 326 IAC 2 and the Hammond Air Quality Control Ordinance 3522 (as amended), if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Ronald Novak, Director
Hammond Department of Environmental Management

KM

cc: Permit Administrator – Mindy Hahn

Registration
Annual Notification

This form should be used to comply with the notification requirements under 326 IAC 2-5.5-4(a)(3).

Company Name:	PACMoore Products, Inc.
Address:	1844 Summer Street
City:	Hammond
Authorized Individual:	William Moore
Phone #:	(219) 932-2666
Registration #:	089-16975-00476

I hereby certify that PACMoore Products, Inc. is still in operation and is in compliance with the requirements of Registration 089-16975-00476.

Name (typed): William Moore
Title: President
Signature:
Date:

Indiana Department of Environmental Management
Office of Air Quality
and
Hammond Department of Environmental Management
Air Pollution Control Division

Technical Support Document (TSD) for a Registration

Source Background and Description

Source Name:	PAC Moore Products, Inc.
Source Location:	1844 Summer Street, Hammond, Indiana 46320
County:	Lake County
SIC Code:	4783 – Packing and Crating
Operation Permit No.:	089-16975-00476
Permit Reviewer:	Kristina Massey

The Hammond Department of Environmental Management (HDEM) has reviewed an application from PAC Moore Products, Inc., relating to the operation of their Receiving and Packing of Dried Food Ingredients.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

(a) Blending Station A, with a maximum capacity of 2.5 tons/hour, using a Schick dust collector (58AJ36) as control, and exhausting to stack (blending A).

(b) Bulk Receiving and Packaging System, with a maximum capacity of 15 tons/hour, using a Camco, Inc. Cartridge Bin Vent Filter (C-26-6-BV), and exhausting to Bulk Receiving Stack.

(c) Bulk Unloading and Blending System, with a maximum capacity of 3.6 tons/hour, using a MikroPul Bin Vent filter (CFV-6), and exhausting to Bulk Unloading Stack.

(d) Packaging Station, with a maximum capacity of 3.75 tons/hour, using a Torit dust collector (192709), and exhausting to Packaging Stack.

(e) Paper Bag Recycling System, with a maximum capacity of 0.05 tons/hour of dried food ingredients, using a MactiFlow dust collector (3MTF 36), and exhausting to Bag Recycling Stack.

(f) Sifting and Repackaging System, with a maximum capacity of 3.75 tons/hour, using a Mikro-Pulsaire Dust Collector (21-6-100), and exhausting to the Repackaging Stack.

(g) Sodium Sulfate Bulk Unloading and Packaging Operation, with a maximum capacity of 15 tons/hour, using a Mikropul Pulse Jet Dust Collector (45-6-220), and exhausting to the Unloading Stack.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

(a) 01983, issued on January 29, 2002;

(b) 01984, issued on January 29, 2002;

(c) 01985, issued on January 29, 2002;

(d) 01986, issued on January 29, 2002;

(e) 01987 issued on January 29, 2002;

(f) 01988, issued on January 29, 2002; and

(g) 01989, issued on January 29, 2002.

All conditions from previous approvals were incorporated into this permit.

Stack Summary

Stack ID/Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (^{0}F)
Silo	45	1' x 2'	1,500	70
Blender A	(vents inside)	1' x 0.5'	1,000	70
Sifter Hopper	(vents inside)	1' x 0.5'	1,000	70
Corner Hopper	(vents inside)	1' x 0.5'	1,000	70
Blender B	45	1' x 2'	1,500	70
Vacuum	(vents inside)	0.33'	800	200
Bailer	19	2'	16,000	70

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Director that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on December 20, 2002, with additional information received on January 14, 2003.

Emission Calculations

See Appendix A of this document for detailed emissions calculations (three (3) pages).

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential To Emit (tons/year)
PM	18.88
PM-10	10.46
SO_2	0
VOC	0
CO	0
NO_x	0

The potential to emit (as defined in 326 IAC 2-7-1(29)) of Particulate Matter is less than 100 tons per year, therefore, the source is not subject to the provisions of 326 IAC 2-7. The potential to emit of Particulate Matter is greater than 5 tons per year and less than 25 tons per year, therefore, the source is subject to the provisions of 326 IAC 2-5 (Registration).

Actual Emissions

The following table shows the actual emissions from the source. This information reflects the 2001 HDEM emission data.

Pollutant	Actual Emissions (tons/year)
PM	0.0043
PM-10	0.0026
SO_2	0
VOC	0
CO	0
NO_x	0
HAP (specify)	0

County Attainment Status

The source is located in Lake County.

Pollutant	Status
PM-10	Moderate nonattainment
SO_2	Primary nonattainment
NO_2	Attainment/unclassifiable
Ozone	Severe nonattainment
CO	Attainment/unclassifiable
Lead	Attainment/unclassifiable

Lake County has been classified as nonattainment for particulate matter less than 10 microns (PM10). Therefore, these emissions were reviewed pursuant to the requirements for Emission Offset, 326 IAC 2-3.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.0189
PM10	0.0123
SO_2	0
VOC	0
CO	0
NO_x	0

This existing source is **not** a major stationary source because no nonattainment regulated pollutant is emitted at a rate of 100 tons per year, and it is not in one of the 28 listed source categories.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source, including the emissions from this permit, is still not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

(a) each criteria pollutant is less than 100 tons per year,
(b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
(c) any combination of HAPs is less than 25 tons/year.

This status is based on all the air approvals issued to the source. This status has been verified by the HDEM.

Federal Rule Applicability

(a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.

(b) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 5-1 (Opacity Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

(a) Opacity shall not exceed an average of twenty percent (20%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

(b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Process Operations)

Pursuant to 326 IAC 6-3-2, the particulate matter (PM) from the following facilities shall be limited by the following:

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$E = 4.10 P^{0.67}$

where E = rate of emission in pounds per hour and
P = process weight rate in tons per hour

Bulk Receiving, 25.16 lbs/hr
Blender A, 7.58 lbs/hr
Sifter Hopper, 9.94 lbs/hr;
Corner Hopper, 9.94 lbs/hr
Blender B, 9.67 lbs/hr
Bulk Unloading, 25.16 lbs/hr
Paper Bailer, 0.55 lbs/hr

However, since no controls are needed to meet any of these allowable rates, the Hammond Air Quality Control Ordinance No. 3522 (as amended) will limit the process emissions to the following emissions after controls which will be within the standards set by the rule:

Bulk Receiving, 0.0012 lbs/hr
Blender A, 0.0006 lbs/hr
Sifter Hopper, 0.0009 lbs/hr;
Corner Hopper, 0.0009 lbs/hr
Blender B, 0.0001 lbs/hr
Bulk Unloading, 0.11 lbs/hr
Paper Bailer, 0.55 lbs/hr (as above)

The dust collecting equipment shall be in operation at all times the facilities are in operation, in order to comply with this limit.

Conclusion

The operation of this Dried Food Ingredients Receiving and Packaging Processes shall be subject to the conditions of the attached proposed Registration 089-16975-00476 and Local Operation Permits.

ALABAMA POWER LAW (CDS)/EIS CALCULATIONS

PAC Moore Products, Inc.
1844 Summer Street
Hammond, Indiana 46325

PLANT ID NO: ----
INSP DATE: 10/16/01
CALC DATE: 1/13/03

CALCULATIONS BY: Kristina Massey

YEAR OF DATA: **REVIEW**

NO. OF POINTS: 6

NOTES
EF: EMISSION FACTOR
CE: CONTROL EFFICIENCY
MDR: MAXIMUM DESIGN RATE
MDC: MAXIMUM DESIGN CAPACITY
Ts: STACK DISCHARGE TEMPERATURE
UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

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Sodium Sulfate Bulk Unloading and Packing
(Pneumatic unloading from bulk railcar)
CNTRL DEV: Mikropul Pulse Jet Dust Collector
(Model #45-6-220)

MDR (T/hr): 15
YEARLY PROD (T/yr): 10,153
OPERATING HRS: **8760** hr/yr

STACK ID (DIAM:HEIGHT): (0.66: 5)
FLOWRATE (ACFM): 800
Ts(°F): 200

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-06			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.04	0.999	0.6000	14.4000	**2.6280**	0.0006	0.0026	0.0001	0.110	0.4824	0.2031	0.0002
PM10	0.02	0.999	0.3000	7.2000	**1.3140**	0.0003	0.0013	0.0001	0	0.0000	0.1015	0.0001
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	---	0	#VALUE!	#VALUE!	**#VALUE!**	#VALUE!	#VALUE!	N/A	0	0.0000	#VALUE!	#VALUE!

*This point has potential emissions below the State's registration thresholds.
Applicable Reg: Hammond Air Quality Control Ordinance No. 3522

Sodium Sulfate is a coarse granular with density of 90 lbs/cuft.
Packaging into Supersac containers (2,000 lbs)

Allowable emissions will be limited to manufacturer's guaranteed outlet loading of 0.02 gr/acf.
lb/hr = gr/dscf*(60/7000)*[(530*acfm)/(460+Ts)]
lb/hr = 0.11012987

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Packaging Station (Corner Hopper)

MDR (T/hr): 3.75
YEARLY PROD (T/yr): 9,974

STACK ID (DIAM:HEIGHT): 0.66:---
FLOWRATE (ACFM): 1000
Ts(°F): 70

CNTRL DEV: Torit Dust Collector
(Model No. 192709)
OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-07			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.24	0.999	0.9000	21.6000	**3.9420**	0.0009	0.0039	0.0001	0.0006	0.0026	1.1969	0.0012
PM10	0.12	0.999	0.4500	10.8000	**1.9710**	0.0005	0.0020	0.0001	0	0.0000	0.5984	0.0006
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000

*This point has potential emissions below the State's registration thresholds.
Applicable Reg: Hammond Air Quality Control Ordinance No. 3522

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Blending Station A

MDR (T/hr): 2.5
YEARLY PROD (T/yr): 6,170.00

STACK ID (DIAM:HEIGHT): 0.66 : ----
FLOWRATE (ACFM): 1000
Ts(°F): 70

CNTRL DEV: Schick Dust Collector
(Model No. 58AJ36)

OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-07			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.24	0.999	0.6000	14.4000	**2.6280**	0.0006	0.0026	0.0001	0.00024	0.0011	0.7404	0.0007
PM10	0.12	0.999	0.3000	7.2000	**1.3140**	0.0003	0.0013	0.0000		#VALUE!	0.3702	0.0004
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000

*This point has potential emissions below the State's registration thresholds.

Applicable Reg: Hammond Air Quality Control Ordinance No. 3522

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Sifting and Re-Packaging of Powders

MDR (T/hr): 3.75
YEARLY PROD (T/yr): 6,776

STACK ID (DIAM:HEIGHT): ?
FLOWRATE (ACFM): 1000
Ts(°F): 70

CNTRL DEV: Mikro-Pulsaire Dust Collector
(Model No. 21-6-100)

OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-07			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.24	0.999	0.9000	21.6000	**3.9420**	0.0009	0.0039	0.0001	0.0015	0.0066	0.8131	0.0008
PM10	0.12	0.999	0.4500	10.8000	**1.9710**	0.0005	0.0020	0.0001	0	0.0000	0.4066	0.0004
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000

*This point has potential emissions below the State's registration thresholds.

Applicable Reg: Hammond Air Quality Control Ordinance No. 3522

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Bulk Unloading and Blending System

(Pneumatic Unloading from railcars)
CNTRL DEV: MikroPul Bin Vent Filter (Model CFV-6)

MDR (T/hr): 3.6
YEARLY PROD (T/yr): 5,461

STACK ID (DIAM:HEIGHT): ?
FLOWRATE (ACFM): 1000
Ts(°F): 100

OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-07			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.24	0.9999	0.8640	20.7360	**3.7843**	0.0001	0.0004	0.0000	0.000086	0.0004	0.6553	0.0001
PM10	0.12	0.9999	0.4320	10.3680	**1.8922**	0.0000	0.0002	0.0000	0	0.0000	0.3277	0.0000
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000

*This point has potential emissions below the State's registration thresholds.

Applicable Reg: Hammond Air Quality Control Ordinance No. 3522

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Bulk Receiving & Packaging System
(Pneumatic unloading from railcars or bulk trucks)
CNTRL DEV: Camco, Inc. Cartridge Bin Vent Filter
(Model C-26-6-BV) w/GORE-TEX
LIGHT-PULSE Filters; 99.72% C.E.
SCC NO. 3-05-011-06

MDR (T/hr): 15
YEARLY PROD (T/yr): 20,026.00
PERMITTED OPERATING HRS: **8760** hr/yr

STACK ID (DIAM:HEIGHT): ?
FLOWRATE (ACFM): 1800
Ts(°F): 70

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.029	0.9972	0.4350	10.4400	**1.9053**	0.0012	0.0053	0.0001	0.001218	0.0053	0.2904	0.0008
PM10	0.03	0.9972	0.4500	10.8000	**1.9710**	0.0013	0.0055	0.0001	0.00126	0.0055	0.3004	0.0008
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0	0.0000	0.0000	0.0000

*This point has potential emissions below the State's registration thresholds.

PM: Hammond Air Quality Control Ordinance No. 3522 (as amended)

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Paper Bag Recycling Operation

MDR (T/hr): 0.05
YEARLY PROD (T/yr): 3,924

STACK ID (DIAM:HEIGHT): (2: 19)
FLOWRATE (ACFM): 16000
Ts(°F): 70

CNTRL DEV: Process Cyclone and Dust Collector
Mactiflow (3MTF36)
OPERATING HRS: **8760** hr/yr

			POTENTIAL EMISSIONS						ALLOWABLE		COMPANY ACTUAL	
SCC NO. 3-05-011-07			BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	EF(LB/T)	CE (%)	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	0.24	0.999	0.0120	0.2880	**0.0526**	0.0000	0.0001	0.0000	0.551	2.41	0.47	0.00
PM10	0.12	0.999	0.0060	0.1440	**0.0263**	0.0000	0.0000	0.0000	0.551	2.41	0.24	0.00
SOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.00	0.00	0.00	0.00
NOx	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.00	0.00	0.00	0.00
VOC	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.00	0.00	0.00	0.00
CO	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.00	0.00	0.00	0.00
LEAD	0	0	0.0000	0.0000	**0.0000**	0.0000	0.0000	N/A	0.00	0.00	0.00	0.00

*This point has potential emissions below the State's registration thresholds.

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E.F. used is for concrete batching because there are no E.F.s for this type of operation.
This is very conservative in that the material handled is mostly paper bag with a little amount of powder material.

PLANT-WIDE EMISSIONS

	POTENTIAL EMISSIONS						COMPANY ACTUAL	
	BEFORE CONTROLS			AFTER CONTROLS			BEFORE	AFTER
POLLUTANT	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	CONTROLS	CONTROLS
PM	4.3110	103.4640	18.8822	0.0043	0.0189	0.0005	4.3700	0.0043
PM10	2.3880	57.3120	10.4594	0.0028	0.0123	0.0003	2.3402	0.0026
SOx	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	0.0000	0.0000
NOx	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	0.0000	0.0000
VOC	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	0.0000	0.0000
CO	0.0000	0.0000	0.0000	0.0000	0.0000	#VALUE!	0.0000	0.0000
LEAD	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!

*THIS SOURCE IS CLASS "REGISTERED" ACCORDING TO PM EMISSIONS.